Beta Presentation
TechSmith Video Summarizer

The Capstone Experience
Team TechSmith

Collin Bleech
Alex Deneau
Chad Quinlan
Justin Tu
Jacob Willinger

Department of Computer Science and Engineering
Michigan State University
Fall 2020
Project Overview

• Split and Summarize Videos
  ▪ Any video of any length
  ▪ Easily view “segments” to improve your learning experience

• User Accounts
  ▪ Watch videos whenever and wherever you are
  ▪ Manage uploaded videos

• Streamlined User Experience

• Translation
  ▪ Translate video summaries into other languages
System Architecture

Azure Cloud Platform

- User
- React Front End
- Docker
- Back End
- BLOB Storage
- SQL DB
- Speech API
- Azure Services
Viewing a Video

This is the first video and what’s going to be a series of tutorials introducing Python in Cinema 4D and Python is a scripting language that I think was started in the early 90s and as of release 12 it’s been integrated in cinema 4D and what I’m going to talk about today is script manager and the console is sort of input and output. You know the the script manager is where you write your code and send instructions to cinema and the console is where you get messages from the script while running.

So this is a pretty simple script that handles that, but we’re going to start even simpler. We’re going to start with a single line to make sure the basics are clear, and so our first script is just going to say print parentheses.
List of Summaries on Website
My Videos Page
Before & After Keyword Search

1. **Before**
   - Search by Keyword: "Auto-Owners"
   - They have over 47,000 independent agents who will submit applications for customers to purchase insurance. [...] Agents will submit over 100 applications for workers' compensation insurance from all 26 states.
   - #applications #workers compensation insurance
   - Richard is able to get through all of his applications for the day, even though he needs to stay after work to complete his applications for the day.
     - #day #applications #leaves work #film #Richard
   - Since the underwriter can also miss something small like a period or a comma in the business name. [...] This table contains information like the business name, address, and status, so the underwriter can easily determine the correct company.

2. **After**
   - Search by Keyword: "insurance"
   - They have over 47,000 independent agents who will submit applications for customers to purchase insurance. [...] Agents will submit over 100 applications for workers' compensation insurance from all 26 states.
   - #applications #workers compensation insurance
What’s left to do?

• Algorithm Optimizations
  ▪ Segmentation
  ▪ Time stamps
  ▪ Video Processing
  ▪ Overall optimizations

• Authentication
  ▪ Ensuring the API is secured
  ▪ Users can only edit their videos

• Additional Video Format Support
Questions?